

**What is claimed is:**

- 1           1.    A computer implemented data distribution  
2 method for radar data, comprising the steps of:
  - 3           (a)   receiving at least one distribution group,  
4                wherein each distribution group corresponds  
5                to a data storage terminal and comprises at  
6                least one source code, wherein each source  
7                code corresponds to a data collection  
8                terminal and has a priority level for  
9                representing a processing order therein;
  - 10          (b)   calculating distances between the data  
11                storage terminal and the composed data  
12                collection terminal and selecting the source  
13                code with the shortest distance for each  
14                distribution group;
  - 15          (c)   if source code is selected repeatedly in the  
16                distribution groups, comparing the priority  
17                levels of the source code in the repeated  
18                distribution groups and selecting the source  
19                code for a distribution group in which the  
20                source code has a highest priority level;
  - 21          (d)   if the priority levels of the source code  
22                are the same, calculating distances between  
23                the data storage terminals and the data  
24                collection terminal corresponding to the  
25                repeated source code, and selecting the  
26                source code for the distribution group which  
27                has the shortest distance; and

28           (e)   executing step (c) and step (d) until the  
29                   source code is all selected.

1           2.    The computer implemented data distribution  
2 method as claimed in claim 1, wherein the data  
3 collection terminals are radar terminals for  
4 collecting radar data and the data storage terminals  
5 are radar data control terminals for storing the radar  
6 data.

1           3.    The computer implemented data distribution  
2 method as claimed in claim 2, wherein the distribution  
3 groups are produced by distributing the radar data to  
4 the data storage terminals according to a Mosaic  
5 distribution rule.

1           4.    The computer implemented data distribution  
2 method as claimed in claim 2, further comprising the  
3 steps of:

4           combining the distribution groups and the  
5                   selected source code into at least one  
6                   second distribution group; and  
7           storing the radar data to the data storage  
8                   terminals according to the second  
9                   distribution group.

1           5.    The computer implemented data distribution  
2 method as claimed in claim 1, wherein, distance  
3 calculation in step (b) and step (c) is geographic.

1           6.    A machine-readable storage medium storing a  
2 computer program providing a computer implemented data

3 distribution method for radar data, the method  
4 comprising the steps of:

- 5 (a) receiving at least one distribution group,  
6 wherein each distribution group corresponds  
7 to a data storage terminal and comprises at  
8 least one source code, wherein each source  
9 code corresponds to a data collection  
10 terminal and has a priority level for  
11 representing a processing order therein;
- 12 (b) calculating distances between the data  
13 storage terminal and the composed data  
14 collection terminal and selecting the source  
15 code with the shortest distance for each  
16 distribution group;
- 17 (c) if the source code is selected repeatedly in  
18 the distribution groups, comparing the  
19 priority levels of the source code for the  
20 repeated distribution groups and selecting  
21 the source code in a distribution group in  
22 which the source code has a highest priority  
23 level;
- 24 (d) in comparison of the step (c), if the  
25 priority levels of the source code are the  
26 same, calculating distances between the data  
27 storage terminals and the data collection  
28 terminal corresponding to the repeated  
29 source code, and selecting the source code  
30 in the distribution group which has the  
31 shortest distance; and

32           (e)    executing step (c) and step (d) until the  
33                   source code is all selected.

1           7.    The machine-readable storage medium as  
2    claimed in claim 6, wherein the data collection  
3    terminals are radar terminals for collecting radar  
4    data and the data storage terminals are radar data  
5    control terminals for storing the radar data.

1           8.    The machine-readable storage medium as  
2    claimed in claim 7, wherein the distribution groups  
3    are produced by distributing the radar data to the  
4    data storage terminals according to a Mosaic  
5    distribution rule.

1           9.    The machine-readable storage medium as  
2    claimed in claim 7, further comprising the steps of:  
3            combining the distribution groups and the  
4               selected source code into at least one  
5               second distribution group; and  
6            storing the radar data to the data storage  
7               terminals according to the second  
8               distribution group.

1           10.   The machine-readable storage medium as  
2    claimed in claim 6, wherein, distance calculation in  
3    step (b) and step (c) is geographic.

1           11.   A system for radar data distribution,  
2    comprising:  
3            a receiving module, receiving at least one  
4               distribution group, wherein each

5           distribution group corresponds to a data  
6           storage terminal and comprises at least one  
7           source code, wherein each source code  
8           corresponds to a data collection terminal  
9           and has a priority level for representing a  
10          processing order therein;

11       a first distribution module, coupled to the  
12          receiving module, calculating distances  
13          between the data storage terminal and the  
14          composed data collection terminal and  
15          selecting the source code with the shortest  
16          distance for each distribution group;

17       a second distribution module, coupled to the  
18          first distribution module, if the source  
19          code is selected repeatedly for the  
20          distribution groups, comparing the priority  
21          levels of the source code for the repeated  
22          distribution groups and selecting the source  
23          code in a distribution group in which the  
24          source code has the highest priority level;

25       a third distribution module, coupled to the  
26          second distribution module, if the priority  
27          levels of the source code are the same,  
28          calculating distances between the data  
29          storage terminals and the data collection  
30          terminal corresponding to the repeated  
31          source code, and selecting the source code  
32          for the distribution group which has the  
33          shortest distance; and

34       a fourth distribution module, coupled to the  
35               second and the third distribution module,  
36               executing the second and the third  
37               distribution module until the source code is  
38               all selected.

1       12. The system as claimed in claim 11, wherein  
2       the data collection terminals are radar terminals for  
3       collecting radar data and the data storage terminals  
4       are radar data control terminals for storing the radar  
5       data.

1       13. The system as claimed in claim 12, wherein  
2       the distribution groups are produced by distributing  
3       the radar data to the data storage terminals according  
4       to a Mosaic distribution rule.

1       14. The system as claimed in claim 12, further  
2       comprising:

3       a combination module, combining the distribution  
4               groups and the selected source code into at  
5               least one second distribution group; and  
6       a storage module, coupled to the combination  
7               module, storing the radar data to the data  
8               storage terminals according to the second  
9               distribution group.

1       15. The system as claimed in claim 11, wherein  
2       distance calculation in the first and the second  
3       distribution module is geographic.